

Work Order ID 160124

Friday, April 21, 2017 11:47:23 AM

160124

Page 1

Item ID: D3631-1 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Washer
Start Date: 4/24/2017 Start Qty: 100.00 ***100*** Cust Item ID:
Required Date: 5/8/2017 Req'd Qty: 100.00 ***100*** Customer:
Reference: SCHEDULED

Approvals: Process Plan: DAS 21 3-89 Date: APR 21 2017 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3631	Rev A								
100	PURCHASING	0.00							DAS 13 3-89
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>36069</u> Purchase Part Number: 95606A170 Supplier: Mc Master CarrCertificate of conformity is required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	2.00							
Packaging	Ensure certificate of conformity is attached								
120	QC6- Inspect dimensions to drawing	0.00							
120									
QC	Memo	0.00							
Quality Control									

100APR 25 2017100 Sp17-4-27100DAS
38
3-89
APR 28 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Work Order ID 160124

Friday, April 21, 2017 11:47:23 AM

160124

Page 2

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Item Name: Washer
Start Date: 4/24/2017 Start Qty: 100.00 ***100*** Cust Item ID:
Required Date: 5/8/2017 Req'd Qty: 100.00 ***100*** Customer:
Reference: SCHEDULED

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: _____	0.00							
130						100			DAS 6 9-89
Packaging	Memo	1.00						APR 28 2017	
Packaging	LOCATION : FP001								
140	QC21- Final Inspection - Work Order Release	0.00							
140									17/5/14
QC	Memo	10.00							
Quality Control									

MAY 01 2017

DAS
21
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Friday, April 21, 2017 11:47:26 AM

Page 1

Work Order ID: 160124

160124

Parent Item: D3631-1

D3631-1

Parent Item Name: Washer

Start Date: 4/24/2017

Required Date: 5/8/2017

Start Qty: 100.00

Required Qty: 100.00

Comments: IPP Rev:A New Issue 07-07-28 JLM Verified By:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

95606A170

Purchased

No

110

Each

0.0000

1

100

95606A170

Washer

100x SP/7-4-27

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

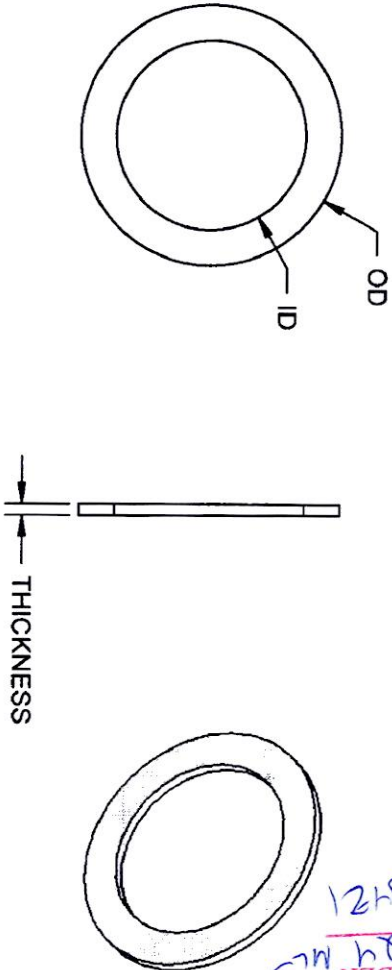
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								



DESIGN	C.B	DRAWN BY	C.B	DART AEROSPACE LTD	
				HAWKESBURY, ONTARIO, CANADA	
CHECKED	PH	APPROVED	PH	DRAWING NO.	D3631
DATE	07.05.16			TITLE	WASHER
REV	A	DATE	07.05.16	DESCRIPTION	

SPECIFICATION CONTROL DRAWING



D3631-X WASHER

PART NUMBER	OD	ID	THICKNESS	MATERIAL	SUPPLIER
D3631-1	0.688	0.500	0.031	NYLON	McMASTER-CARR P/N: 95606A170

- NOTES:
- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 2) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

RELEASED
07.08.02

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36069**

Purchase Order Date 4/25/2017

PO Print Date 4/25/2017

Page Number 2 of 8

Order From :

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

VU-MCM001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

330 995 5500

Ship To Contact

Ship To Phone

Ship Via:

Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

3	9776K117	Flame Retardent Nylon Hook & Loop	4/27/2017	200.00	\$1.36	\$271.88
			Yes	f		
			4/27/2017			

AS PER DWG D3800 REV. B
B159766

Line Total: \$271.88

4	95606A170	Washer	4/27/2017	100.00 Each	\$0.09	\$8.60
			Yes			
			4/27/2017			

AS PER DWG D3631 REV. A
B160124

DAS
38
2-89

SPK 4-27

Line Total: \$8.60

5	93695K58	WINDOW SEAL	4/27/2017	50.00	\$0.32	\$16.15
			Yes	f		
			4/27/2017			

AS PER DWG D3802 REV. D
B160123

Line Total: \$16.15

Note:

4/25/2017



McMASTER-CARR®

Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO36069

Order Placed By
Chantal Lavoie

McMaster-Carr Number
2390118-04

Page 1 of 2

04/25/2017

Line	Product	Ordered	Shipped
1	90130A030 Weather-Resistant EPDM Rubber Sealing Washer for 5/16" Screw Size, 0.29" ID, 0.562" OD, Packs of 100	10 Packs	10
4	95606A170 Nylon Plastic Washer for 7/16" Screw Size, 0.5" ID, 0.683" OD, Off-White, Packs of 100	1 Pack	1
5	93695K58 Oil-Resistant Fire-Retardant Blended Buna-N Foam 50 Feet Adhesive-Back Strip, 1/4" Thick, 1" Wide	1 Each	1
6	59915K274 PTFE-Lined Stainless Steel Ball Joint Rod End 3/8"-24 RH Male Shank, 3/8" Ball ID, 1-1/4" Long Thread	15 Each	15
7	50715K676 Type 316 Stainless Steel 37 Degree Flared Tube Fitting Adapter for 1/4" Tube OD x 7/16"-20 UNF Male	16 Each	16
8	6541K38 Vibration-Resistant Zinc-Plated Steel Double Pinch Clamps 31/64" to 19/32" ID, for Firm Hose and Tube, Packs of 25	1 Pack	1
9	6519T14 Ultra-Chemical-Resistant Versilon PVC Tubing 3/8" ID, 9/16" OD	16 Feet	16
10	46595A36 Backup Pad for Hook and Loop Disc for 5" Disc Diameter, 5/16"-24 Threaded Spindle, Deliver To Carl	1 Each	1
11	2584A33 General Purpose Left-Hand Tap for Through-Hole Threading, 1/4"-28 Thread Size, Deliver To Eric L	1 Each	1
12	2600A16 General Purpose Die UNF Left-Hand Thread, 1" OD, 1/4"-28 Thread Size, Deliver To Eric L	1 Each	1
13	4168A611 High Performance Sanding Belt for Stainless Steel and Hard Metals, 40 Grit, 3/4" Wide, 20-1/2" Long, Deliver To Eric L	30 Each	30
16	1505K94 Miniature Light Bulb Miniature-Bayonet Base, Push-In, Trade Number 1819, Packs of 10, Deliver To Luc	1 Pack	1
17	2757A22 Cutting Wheel for Tube and Pipe Cutter Ridgid 10, 15, and 20, for Tubing, Deliver To Luc	4 Each	4
18	8647A22 Mitutoyo Standard Electronic Caliper 500-197-30, 0-8" (0-200mm) Range, Deliver To Eric D	1 Each	1
19	5812A13 13 Piece Hex L-Key Set, Same As 7158A5 / Deliver To Jesse	2 Each	2
20	69485A21 9 Piece Metric Hex L-Key Set, Deliver To Jesse	2 Each	2

Shipped separately from our Chicago warehouse on 04/25

2	9776K131 1" Wide x 50' Long Loop, Adhesive Back, Beige	5 Each	5
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McMaster-Carr Supply Company
200 Aurora Industrial Pkwy
Aurora, OH 44202-8087 USA
Phone: 330-995-5500 Fax: 330-995-9600
E-Mail: cle.sales@mcmaster.com
Employer Identification Number (EIN): 36-1458720

Invoice: 25939851
Purchase Order: PO36069
Release:
McMaster-Carr Number: 2390118-04

ORIGINAL COMMERCIAL
INVOICE
CERTIFICATE OF ORIGIN

Ultimate Destination:
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Shipped: 25-Apr-2017 FOB: ORIGIN

Shipper's Export Declaration (SED):
NO EEI 30.36

Intermediate Consignee:

Bill To:
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Tax Number:

Forwarding Agent:

Billing
Attention:

Shipping
Attention:

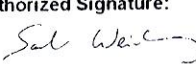
Contact:

Line	Description	Qty & Unit	Unit Price	Extension
1	90130A030 Weather-Resistant EPDM Rubber Sealing Washer for 5/16" Screw Size, 0.29" ID, 0.562" OD, Packs of 100 Country of Origin: United States Schedule B #: 401693 ECCN #: EAR99 NLR	10 PK	\$10.81	\$108.10
4	95606A170 Nylon Plastic Washer for 7/16" Screw Size, 0.5" ID, 0.688" OD, Off-White, Packs of 100 Country of Origin: United States Schedule B #: 392690 ECCN #: EAR99 NLR	1 PK	\$8.60	\$8.60
5	93695K58 Oil-Resistant Fire-Retardant Blended Buna-N Foam 50 Feet Adhesive-Back Strip, 1/4" Thick, 1" Wide Country of Origin: United States Schedule B #: 400811 ECCN #: EAR99 NLR	1 EA	\$16.15	\$16.15
6	59915K274 PTFE-Lined Stainless Steel Ball Joint Rod End 3/8"-24 RH Male Shank, 3/8" Ball ID, 1-1/4" Long Thread Country of Origin: United States Schedule B #: 848330 ECCN #: EAR99 NLR	15 EA	\$19.05	\$285.75

807-4-27

DAS
38
9-89

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

Shipping Weight (in kgs): 7	Number of Packages: 1	Invoice Amounts:	Merchandise Amount: \$1,020.99
Package Dimensions: 44 X 44 X 32 CM = .063 CUBIC M			Canadian GST/HST: \$135.04
			Shipping Charges: \$17.66
			Total (In USD): \$1,173.69
Payment Terms: 2% discount on merchandise only if paid within 10 days, net 30 days			
Authorized Signature: 		Remit payment to: (by wire transfer) Bank of America 222 Broadway New York, NY 10038 Account 86666-02021 SWIFT BOFAUS3N	
Date: 25-Apr-2017		(by mail) McMaster-Carr Supply Company PO Box 7690 Chicago, IL 60680-7690 USA	
Name: Sarah Weinberg	Title: Operations Mgr.	Page 1 of 3	